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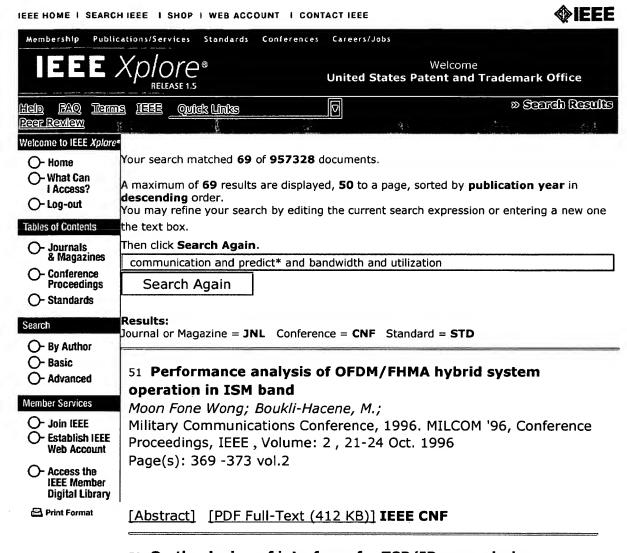
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23 Error correction/masking for digital voice transmission over the land mobile satellite system

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1 Perspectives on ATM switch architecture and the influence of traffic pattern assumptions on

100%

switch design

Robert J. Simcoe, Tong-Bi Pei

ACM SIGCOMM Computer Communication Review April 1995

Volume 25 Issue 2

Switch designs and the uniform distribution traffic pattern that has been the basis of much switch design analysis are discussed. In particular it is shown that head of line blocking is not the major cause of switch and link underutilization. Switch fabric and buffer system input bandwidth tradeoffs are described. For client server applications it is shown that having the majority of switch buffers on the input side of a switch reduces overall switch buffering.

2 <u>Universal congestion control for meshes</u>

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Jerry Stamatopoulos, Jon A. Solworth

Proceedings of the seventh annual ACM symposium on Parallel algorithms and architectures July 1995

3 Design and analysis of low-power access protocols for wireless and mobile ATM networks

97%

Krishna M. Sivalingam, Jyh-Cheng Chen, Prathima Agrawal, Mani B. Srivastava Wireless Networks January 2000

Volume 6 Issue 1

This paper describes the design and analysis of a low‐ power medium access control (MAC) protocol for wireless/mobile ATM networks. The protocol – denoted EC‐MAC (energy conserving medium access control) – is designed to support different traffic types with quality‐of‐ service (QoS) provisions. The network is based on the infrastructure model where a base station (BS) serves all

the mobiles currently in its cell. A reserv ...

4 Resource allocation scheme for QoS provisioning in microcellular networks carrying multimedia 97%

traffic

Anna Ha?, Abhinay Armstrong

International Journal of Network Management September 2001

Volume 11 Issue 5

We propose a new resource allocation scheme based on the concept of resource reservation and resource renegotiation. The new scheme is aimed at improving performance with regard to new call blocking rate, handoff dropping rate, forced call termination rate, and average bandwidth use. We compare our scheme with other schemes. The performance is evaluated by using simulation. Copyright © 2001 John Wiley & Sons, Ltd.

5 Instruction distribution heuristics for quad-cluster, dynamically-scheduled, superscalar

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processors

Amirali Baniasadi, Andreas Moshovos

Proceedings of the 33rd annual ACM/IEEE international symposium on Microarchitecture December 2000

<u>6</u> <u>Improved loss calculations at an ATM multiplexer</u>

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Ness B. Shroff, Mischa Schwartz

IEEE/ACM Transactions on Networking (TON) August 1998

Volume 6 Issue 4

7 Event based resource estimation in admission control for wireless networks with heterogeneous 97% traffic

Jelena Miši?, Samuel T. Chanson, Frederick S. Lai

ACM SIGMOBILE Mobile Computing and Communications Review October 1997

Volume 1 Issue 4

A technique for estimating the resources needed to maintain an upper bound on handoff dropping probability in wireless networks with heterogeneous traffic is presented. The calculation is based on the number and characteristics of connections in the surrounding cells. The information is collected from the base stations in the S surrounding rings and is updated at handoff and call termination events which involves simple arithmetic operations only. Based on the resource requirement estimation, a ...

8 Run-time adaptation in river

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Remzi H. Arpaci-Dusseau

ACM Transactions on Computer Systems (TOCS) February 2003

Volume 21 Issue 1

We present the design, implementation, and evaluation of run-time adaptation within the River dataflow programming environment. The goal of the River system is to provide adaptive mechanisms that allow database query-processing applications to cope with performance variations that are common in cluster platforms. We describe the system and its basic mechanisms, and carefully evaluate those mechanisms and their effectiveness. In our analysis, we answer four previously unanswered and important que ...

9 <u>Multi-client LAN/WAN performance analysis of Ninf: a high-performance global computing</u>

| system | | |

96%

Atsuko Takefusa, Satoshi Matsuoka, Hirotaka Ogawa, Hidemoto Nakada, Hiromitsu Takagi, Mitsuhisa Sato, Satoshi Sekiguchi, Umpei Nagashima

Proceedings of the 1997 ACM/IEEE conference on Supercomputing (CDROM) November 1997

Rapid increase in speed and availability of network of supercomputers is making high-performance global computing possible, including our *Ninf* system. However, critical issues regarding system performance characteristics in global computing have been little investigated, especially under multi-client, multi-site WAN settings. In order to investigate the feasibility of Ninf and similar systems, we conducted benchmarks under various LAN and WAN environments, and observed the following resul ...

10 Providing deterministic delay guarantees in ATM networks

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Seok-Kyu Kweon, Kang G. Shin

IEEE/ACM Transactions on Networking (TON) December 1998

Volume 6 Issue 6

11 A measurement-based admission control algorithm for integrated services packet networks

96%

Sugih Jamin, Peter B. Danzig, Scott Shenker, Lixia Zhang

ACM SIGCOMM Computer Communication Review, Proceedings of the conference on Applications, technologies, architectures, and protocols for computer communication October 1995

Volume 25 Issue 4

Many designs for integrated service networks offer a bounded delay packet delivery service to support real-time applications. To provide bounded delay service, networks must use admission control to regulate their load. Previous work on admission control mainly focused on algorithms that compute the worst case theoretical queueing delay to guarantee an absolute delay bound for all packets. In this paper we describe a *measurement-based* admission control algorithm for *predictive* serv ...

12 Adaptive VBR video traffic management for higher utilization of ATM networks

95%

Girish Chiruvolu, Ravi Sankar, N. Ranganathan

ACM SIGCOMM Computer Communication Review July 1998

Volume 28 Issue 3

The VBR video traffic exhibits high burstiness and correlation properties that are quite complex to be captured by a single traffic model. Efficient resource management based on few parameters of the source traffic is highly desirable. The real-time VBR video traffic has stringent quality of service (QoS) requirements such as delay (few milliseconds) and cell loss (1 in 10⁻⁵) that are difficult to achieve with good utilization (> 0.6) by static bandwidth allocation schemes. In ...

13 Papers: MPEG transmission schemes for a timed token medium access control network

95%

1 Joseph Kee-Yin Ng

ACM SIGCOMM Computer Communication Review January 1999

Volume 29 Issue 1

This paper presents three transmission schemes to improve the transmission of MPEG video over a timed token medium access control (MAC) network. Multiple classes of MPEG video are used in the study. These data are captured from real video programmes and we categorized these video

clips according to their traffic burstiness and workload characteristics. The performance measure of the timed token MAC network is in terms of the maximum number of MPEG video streams

14 Performance evaluation of mesh-connected wormhole-routed networks for interprocessor

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d communication in multicomputers

Suresh Chittor, Richard Enbody

being transmitted without any fram ...

Proceedings of the 1990 ACM/IEEE conference on Supercomputing November 1990 Wormhole routing is becoming a popular switching technique in the design of interprocessor communication networks. In this paper, we describe a set of experiments conducted on wormhole-routed Symult 2010 systems to measure the performance of their interprocessor communication networks. We then analyze the results to predict the performance of similar systems. We first show that long path lengths in this mesh have a negligible effect on communication time. Next, we show that the contention for ne ...

15 Architecture and algorithms for scalable mobile QoS

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Bahareh Sadeghi, Edward W. Knightly

Wireless Networks January 2003

Volume 9 Issue 1

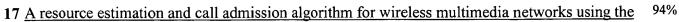
Supporting Quality of Service (QoS) is an important objective for future mobile systems, and requires resource reservation and admission control to achieve. In this paper, we introduce an admission control scheme termed Virtual Bottleneck Cell, an approach designed to scale to many users and handoffs, while simultaneously controlling "hot spots". The key technique is to hierarchically control an aggregated virtual system, ensuring QoS objectives are satisfied in the underlying system without per ...

16 An overview of the BlueGene/L Supercomputer

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NR Adiga, G Almasi, GS Almasi, Y Aridor, R Barik, D Beece, R Bellofatto, G Bhanot, R Bickford, M Blumrich, AA Bright, J Brunheroto, C Ca?caval, J Castaños, W Chan, L Ceze, P Coteus, S Chatterjee, D Chen, G Chiu, TM Cipolla, P Crumley, KM Desai, A Deutsch, T Domany, MB Dombrowa, W Donath, M Eleftheriou, C Erway, J Esch, B Fitch, J Gagliano, A Gara, R Garg, R Germain, ME Giampapa, B Gopalsamy, J Gunnels, M Gupta, F Gustavson, S Hall, RA Haring, D Heidel, P Heidelberger, LM Herger, D Hoenicke, RD Jackson, T Jamal-Eddine, GV Kopcsay, E Krevat, MP Kurhekar, AP Lanzetta, D Lieber, LK Liu, M Lu, M Mendell, A Misra, Y Moatti, L Mok, JE Moreira, BJ Nathanson, M Newton, M Ohmacht, A Oliner, V Pandit, RB Pudota, R Rand, R Regan, B Rubin, A Ruehli, S Rus, RK Sahoo, A Sanomiya, E Schenfeld, M Sharma, E Shmueli, S Singh, P Song, V Srinivasan, BD Steinmacher-Burow, K Strauss, C Surovic, R Swetz, T Takken, RB Tremaine, M Tsao, AR Umamaheshwaran, P Verma, P Vranas, TJC Ward, M Wazlowski, W Barrett, C Engel, B Drehmel, B Hilgart, D Hill, F Kasemkhani, D Krolak, CT Li, T Liebsch, J Marcella, A Muff, A Okomo, M Rouse, A Schram, M Tubbs, G Ulsh, C Wait, J Wittrup, M Bae, K Dockser, L Kissel, MK Seager, JS Vetter, K Yates

Proceedings of the 2002 ACM/IEEE conference on Supercomputing November 2002 This paper gives an overview of the BlueGene/L Supercomputer. This is a jointly funded research partnership between IBM and the Lawrence Livermore National Laboratory as part of the United States Department of Energy ASCI Advanced Architecture Research Program. Application performance and scaling studies have recently been initiated with partners at a number of academic and government institutions, including the San Diego Supercomputer Center and the California Institute of Technology. This mass ...



shadow cluster concept

David A. Levine, Ian F. Akyildiz, Mahmoud Naghshineh

IEEE/ACM Transactions on Networking (TON) February 1997

Volume 5 Issue 1

18 Synchronous bandwidth allocation in FDDI networks

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A Qin Zheng, Kang G. Shin

Proceedings of the first ACM international conference on Multimedia September 1993

19 Rotating combined queueing (RCQ): bandwidth and latency guarantees in low-cost,

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Jae H. Kim, Andrew A. Chien

ACM SIGARCH Computer Architecture News , Proceedings of the 23rd annual international symposium on Computer architecture May 1996

Volume 24 Issue 2

Network service guarantees not only provide significant performance benefits to distributed computing systems (more balanced resource utilization, fast fault recovery, and fair network access), but they are also essential for many new applications requiring real-time communications with continuous data types (audio/video). Most existing algorithms which provide network service guarantees are too complicated to be feasible in high-speed, low-cost switches for multicomputer networks. The simpler a ...

20 Towards coarse-grained mobile OoS

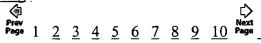
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